

#### AMENDMENTS TO CLAIMS:

Claims 1-27 and 29-32 are pending at the time of the Office Action.

Claims 1, 3-4, 6, 9-10, 17, 20-21, 23, and 30 are amended.

Claims 25-29, and 31 are canceled.

Claims 33-37 are added.

Claims 1-24, 30, and 32-37 are now pending.

1. (Currently Amended) A method for correlating data from multispectral band images produced by different sensors, the method comprising:

spatially matching a plurality of multispectral band images produced by different sensors, the multispectral band images having different resolution levels, ~~wherein the multispectral band images do not include an panchromatic band image;~~

performing at least one of a solar illumination correction and an atmospheric correction on the spatially matched images; and

spectrally correcting one or more of the spatially matched images ~~based on one or more of the other images, the spectrally correcting includes:~~

extracting first radiometrically stable data values associated with first control points in a first image;

extracting second radiometrically stable data values associated with second control points in a second image, the second image having a resolution that is lower than a resolution of the first image;

forming an aggregated first data value for each of the second data values by combining a plurality of the first data values that correspond to each second data value;

comparing the aggregated first data values of the first image to the extracted  
second data values of the second image;  
generating a correction factor based on the comparison; and  
applying the correction factor to all radiometric data of the second image.

2. (Original) The method of Claim 1, wherein spatially matching includes equalizing resolution levels in the images.

3. (Currently Amended) The method of Claim 2 wherein spatially matching further includes:

~~setting the a plurality of~~ first and second control points in the images based on landmark information; and  
aligning the images based on the set control points.

4. (Currently Amended) The method of Claim 3, wherein ~~setting the plurality of~~ first and second control points includes:

- a. determining locations of a plurality of landmarks within a geographic area associated with the images;
- b. displaying one of the images;
- c. adjusting the displayed image to present a selected landmark;
- d. setting a control point associated with a visual feature that is approximately adjacent to the selected landmark; and
- e. repeating c-d until a threshold number of control points have been set; ~~and~~

5. (Original) The method of Claim 3, wherein the landmark information includes schools.

6. (Currently Amended) The method of Claim 4-Claim 5, wherein the visual feature is one of a soccer field, a football field, a quarter mile track, or a baseball field.

7. (Previously Presented) The method of Claim 3, wherein spatially matching multispectral band images includes set each of the plurality of images to equalized resolution levels.

8. (Original) The method of Claim 7, wherein each of the multispectral bands are sampled at various first resolution levels and the set resolution level is the highest of the various first resolution levels.

9. (Currently Amended) A system for correlating data from two or more satellite images from different sensors, the system comprising:

means for spatially matching a plurality of multispectral band satellite images produced by different sensors, ~~the multispectral band satellite images having different resolution levels, wherein the multispectral band satellite images do not include an panchromatic band image;~~

means for performing a solar illumination correction on the spatially matched satellite images; and

means for spectrally correcting one or more of the spatially matched satellite images ~~based on one or more of the other satellite images~~ the means for spectrally correcting further includes:

means for extracting first radiometrically stable data values associated with first control points in a first image;

means for extracting second radiometrically stable data values associated with second control points in a second image, the second image having a resolution that is lower than a resolution of the first image;

means for forming an aggregated first data value for each of the second data values by combining a plurality of the first data values that correspond to each second data value;

means for comparing the aggregated first data values of the first image to the extracted second data values of the second image;

means for generating a correction factor based on the comparison; and

means for applying the correction factor to all radiometric data of the second image.

10. (Currently Amended) The system of Claim 9, wherein the means for spatially matching ~~spatial-comparator~~ includes means for equalizing resolution levels in the multispectral band satellite images.

11. (Previously Presented) The system of Claim 10, wherein the means for spatially matching further includes:

means for setting a plurality of control points in the satellite images based on landmark information;

means for aligning the images based on the set control points; and

means for aligning the images based on the center latitude and center longitude of the base image.

12. (Previously Presented) The system of Claim 11, wherein the means for setting includes:

means for determining locations of a plurality of landmarks within a geographic area common with the satellite images;

means for displaying one of the satellite images;

means for selecting one of the plurality of landmarks;

means for adjusting the displayed satellite image to present the selected landmark based on the determined location; and

means for selecting a control point associated with a visual feature that is approximately adjacent to the selected landmark.

13. (Original) The system of Claim 12, wherein the landmark includes schools.

14. (Original) The system of Claim 12, wherein the visual feature is one of a soccer field, a football field, a quarter mile track, or a baseball field.

15. (Previously Presented) The system of Claim 12, wherein each of the plurality of multispectral band satellite images includes a plurality of multispectral bands set to equalized resolution levels.

16. (Original) The system of Claim 15, wherein each of the multispectral bands are sampled at a plurality of first resolution levels and the set resolution level is the highest of the plurality of first resolution levels.

17. (Currently Amended) A system for correlating a plurality of satellite images from different sources, the system comprising:

a user interface device;

a display device;

a database for storing landmark information; and

a processor coupled to the user interface device, the display device, and the database, the processor including:

means for instructing the display device to present one of the satellite images based on the stored landmark information, ~~the satellite images include~~

~~multispectral band images of different resolution levels, wherein the multispectral band images do not include an panchromatic band image;~~  
means for setting control points in the satellite images based on a signal generated by the user interface;  
means for aligning the images based on the set control points;  
means for performing a solar illumination correction on the aligned images;  
and  
means for spectrally correcting one or more of the aligned images ~~based on one or more of the other images, the means for spectrally correcting further includes:~~

means for extracting first radiometrically stable data values associated with first control points in a first image;

means for extracting second radiometrically stable data values associated with second control points in a second image, the second image having a resolution that is lower than a resolution of the first image;

means for forming an aggregated first data value for each of the second data values by combining a plurality of the first data values that correspond to each second data value;

means for comparing the aggregated first data values of the first image to the extracted second data values of the second image;

means for generating a correction factor based on the comparison; and

means for applying the correction factor to all radiometric data of the second image.

18. (Original) The system of Claim 17, wherein the landmark includes school information.

19. (Original) The system of Claim 18, wherein school information includes location information.

20. (Currently Amended) The system of Claim 17, wherein the user interface device includes a first component for selecting landmark information from the database.

21. (Currently Amended) The system of Claim 17, wherein the user interface device includes a second component for selecting a control point on a visual feature in the displayed satellite image that is associated with the selected landmark.

22. (Original) The system of Claim 21, wherein the visual feature is one of a soccer field, a football field, a quarter mile track, or a baseball field.

23. (Currently Amended) The system of Claim 17, wherein the multispectral band satellite images include multispectral satellite images of different resolution levels, and wherein the processor further includes a means for setting the multispectral band satellite images to equalized resolution levels.

24. (Original) The system of Claim 23, wherein each of the multispectral bands are sampled at various first resolution levels and the set resolution level is the highest of the various first resolution levels.

25.-29. (Canceled).

30. (Currently Amended) A method for correlating data from multispectral band images produced by different sensors, the method comprising:

spatially matching a plurality of multispectral band images produced by different sensors, ~~wherein the multispectral band images do not include an panchromatic band image;~~

setting a plurality of control points in the images based on landmark information; and  
spectrally correcting one or more of the spatially matched images ~~based on spectral information associated with one or more of the set control points in the images,~~  
the spectrally correcting includes:

extracting first radiometrically stable data values associated with first set control points in a first image;

extracting second radiometrically stable data values associated with second set control points in a second image, the second image having a resolution that is lower than a resolution of the first image;

forming an aggregated first data value for each of the second data values by combining a plurality of the first data values that correspond to each second data value;

comparing the aggregated first data values of the first image to the extracted second data values of the second image;

generating a correction factor based on the comparison; and

applying the correction factor to all radiometric data of the second image.

31. (Canceled).



32. (Previously Presented) The method of Claim 30, wherein spatially matching multispectral band images produced by different sensors include spatially matching multispectral band images of different resolution levels.

33. (New) The method of Claim 32, wherein spatially matching further includes:

- setting the first and second control points in the images based on landmark information; and
- aligning the images based on the set control points.

34. (New) The method of Claim 33, wherein setting the first and second control points includes:

- a. determining locations of a plurality of landmarks within a geographic area associated with the images;
- b. displaying one of the images;
- c. adjusting the displayed image to present a selected landmark;
- d. setting a control point associated with a visual feature that is approximately adjacent to the selected landmark; and
- e. repeating c-d until a threshold number of control points have been set;

35. (New) The method of Claim 33, wherein the landmark information includes schools.

36. (New) The method of Claim 34, wherein the visual feature is one of a soccer field, a football field, a quarter mile track, or a baseball field.

37. (New) A system for correlating data from two or more satellite images from different sensors, the system comprising:

- means for spatially matching a plurality of multispectral band satellite images produced by different sensors;

means for spectrally correcting one or more of the spatially matched satellite images

the means for spectrally correcting further includes:

means for extracting first radiometrically stable data values associated with

first control points in a first image;

means for extracting second radiometrically stable data values associated with

second control points in a second image, the second image having a

resolution that is lower than a resolution of the first image;

means for forming an aggregated first data value for each of the second data

values by combining a plurality of the first data values that correspond to

each second data value;

means for comparing the aggregated first data values of the first image to the

extracted second data values of the second image;

means for generating a correction factor based on the comparison; and

means for applying the correction factor to all radiometric data of the second

image.